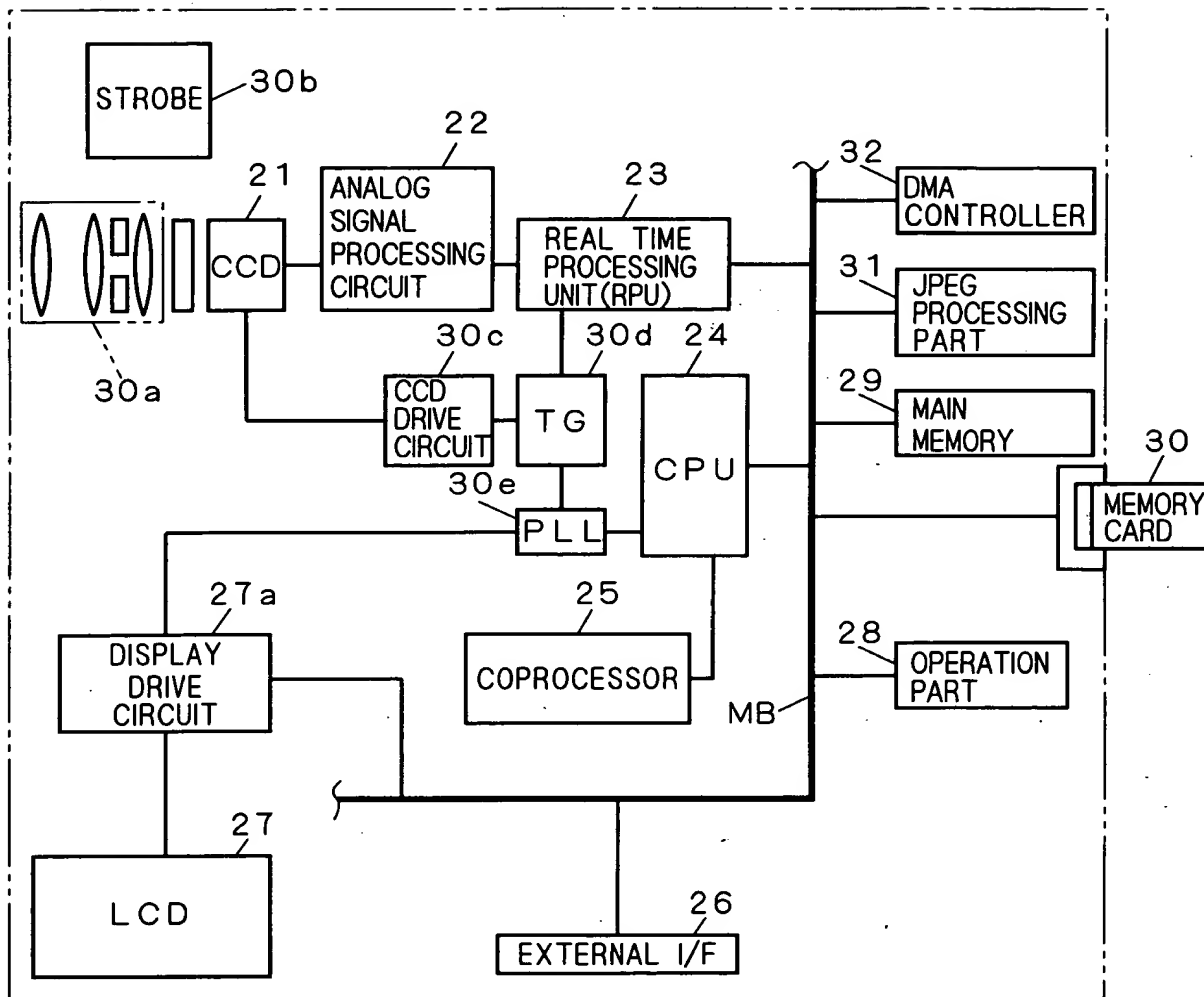
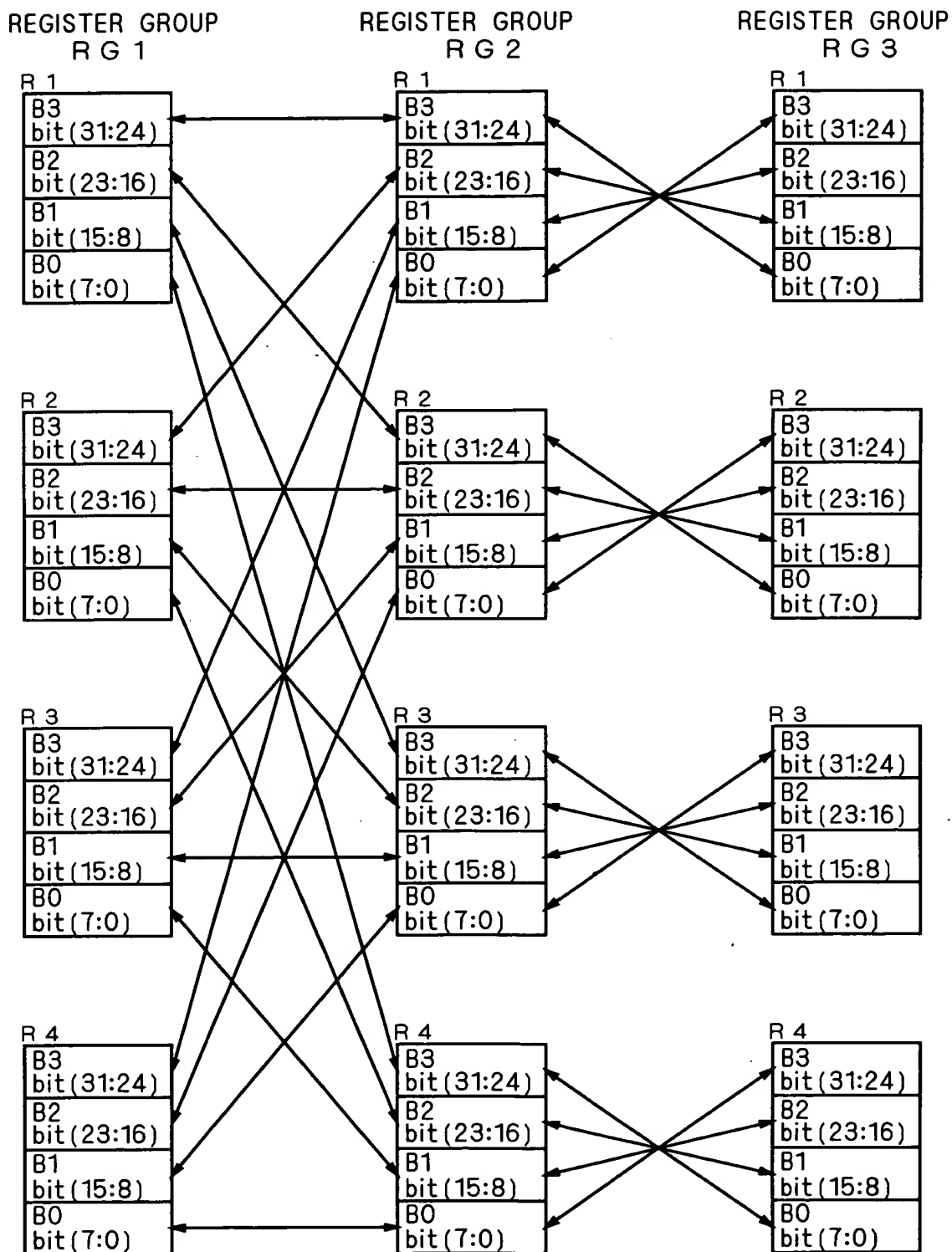


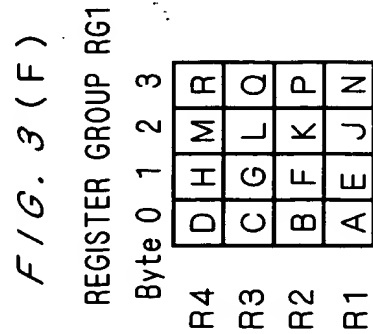
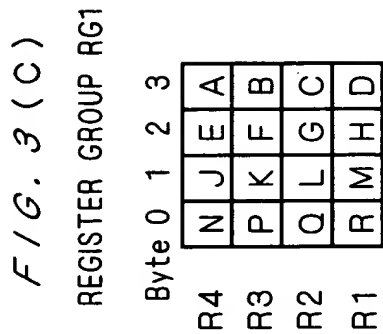
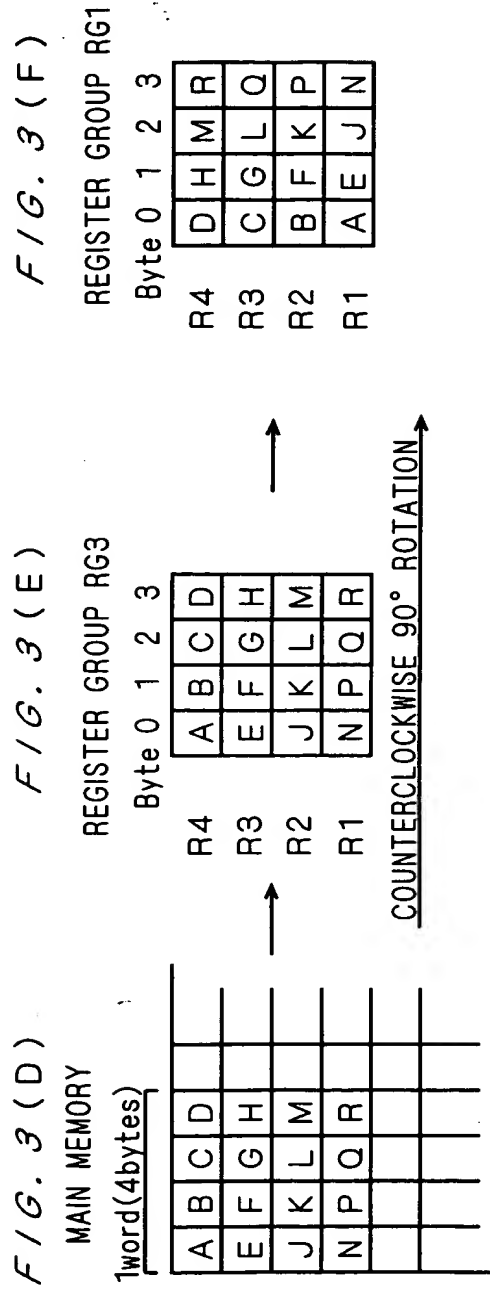
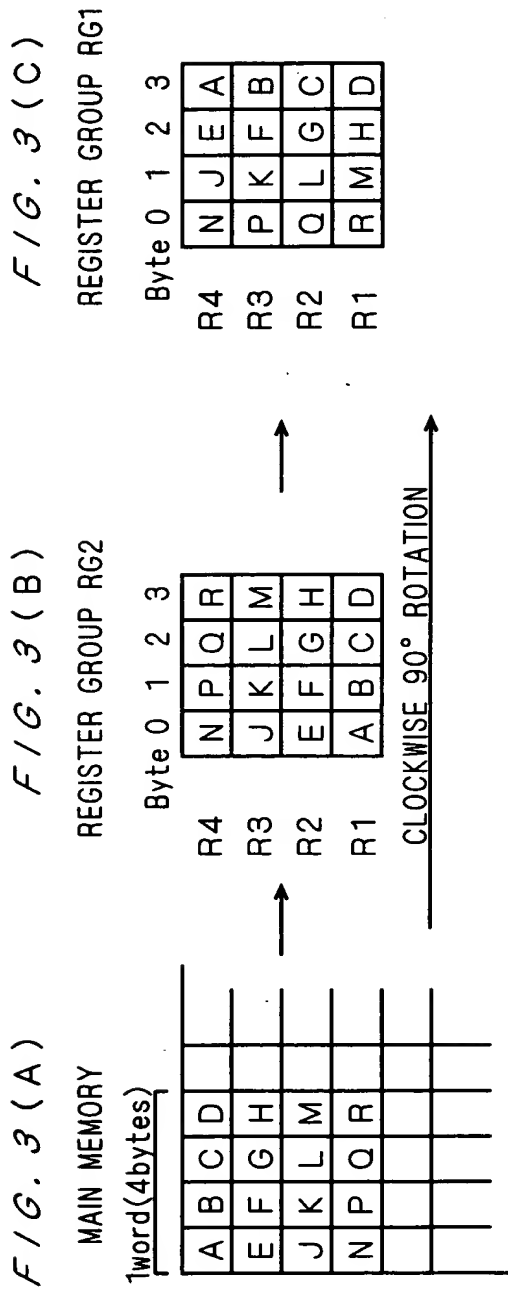
FIG. 1



03501083 004500

FIG. 2





**FIG. 4 (A)**

MAIN MEMORY

1word(4bytes)

|   |   |   |   |
|---|---|---|---|
| A | B | C | D |
| E | F | G | H |
| J | K | L | M |
| N | P | Q | R |
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |

↑

**FIG. 4 (B)**

REGISTER GROUP RG3

Byte 0 1 2 3

|   |   |   |   |
|---|---|---|---|
| A | B | C | D |
| E | F | G | H |
| J | K | L | M |
| N | P | Q | R |

R4  
R3  
R2  
R1

↑

SYMMETRICAL REFLECTING

↑

**FIG. 4 (C)**

REGISTER GROUP RG2

Byte 0 1 2 3

|   |   |   |   |
|---|---|---|---|
| D | C | B | A |
| H | G | F | E |
| M | L | K | J |
| R | Q | P | N |

R4  
R3  
R2  
R1

CL

005F20 26010500

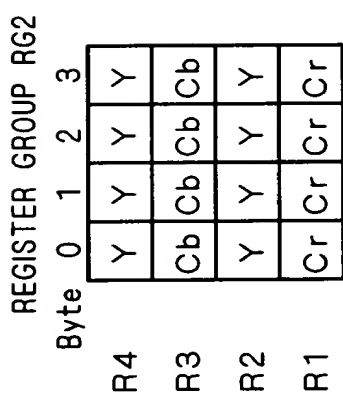
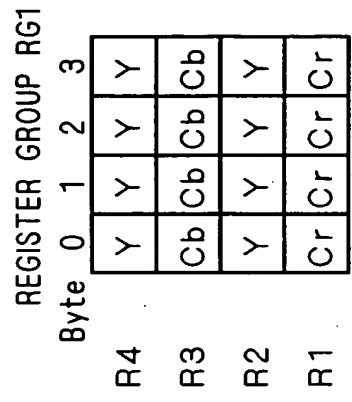
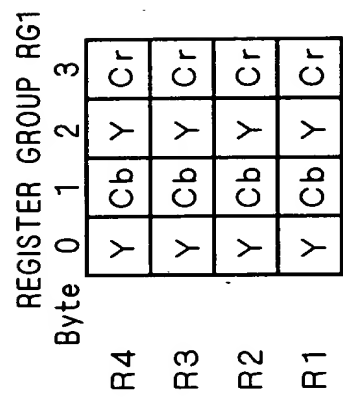


FIG. 5 (A)

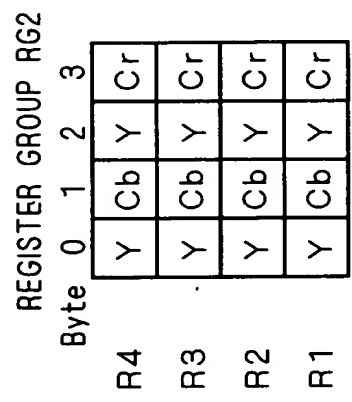


FIG. 5 (B)

FIG. 6

## REGISTER GROUP RG4

R1 (R3)

|            |
|------------|
| B3         |
| bit(31:24) |
| B2         |
| bit(23:16) |
| B1         |
| bit(15:8)  |
| B0         |
| bit(7:0)   |

R2 (R4)

|            |
|------------|
| B3         |
| bit(31:24) |
| B2         |
| bit(23:16) |
| B1         |
| bit(15:8)  |
| B0         |
| bit(7:0)   |

## REGISTER GROUP RG5

R1 (R3)

|            |
|------------|
| B3         |
| bit(31:24) |
| B2         |
| bit(23:16) |
| B1         |
| bit(15:8)  |
| B0         |
| bit(7:0)   |

R2 (R4)

|            |
|------------|
| B3         |
| bit(31:24) |
| B2         |
| bit(23:16) |
| B1         |
| bit(15:8)  |
| B0         |
| bit(7:0)   |

005420 20010500

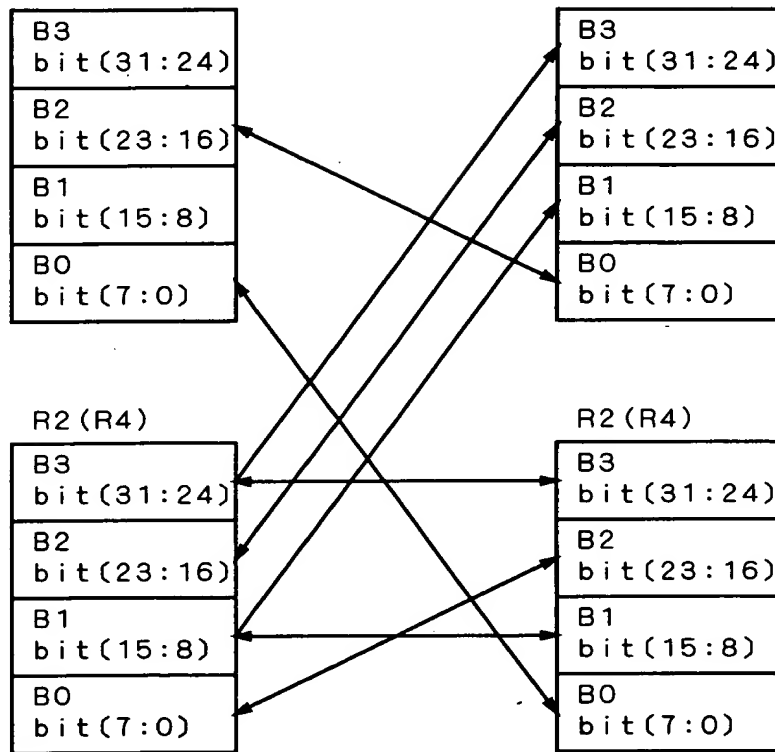


FIG. 7

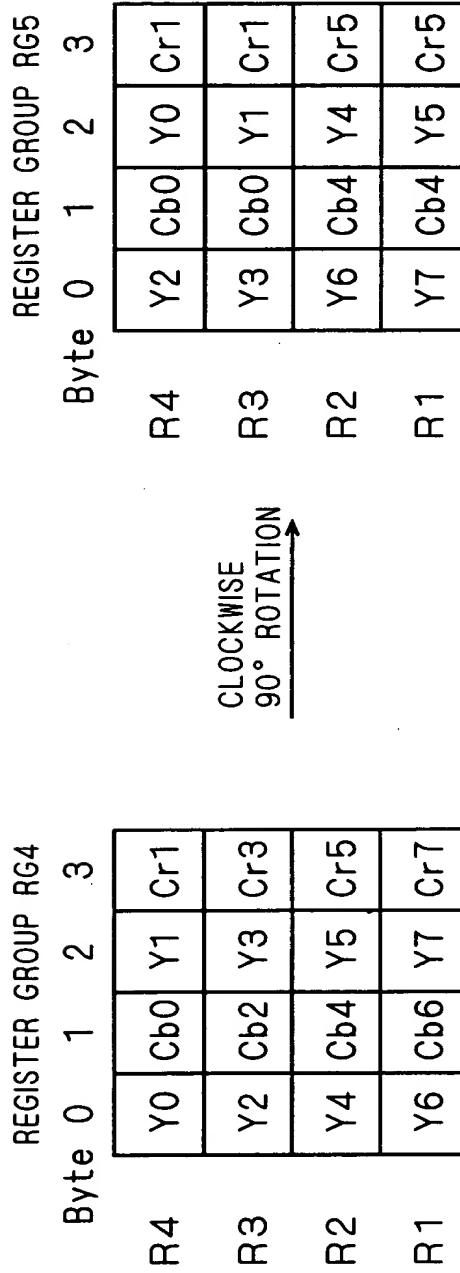
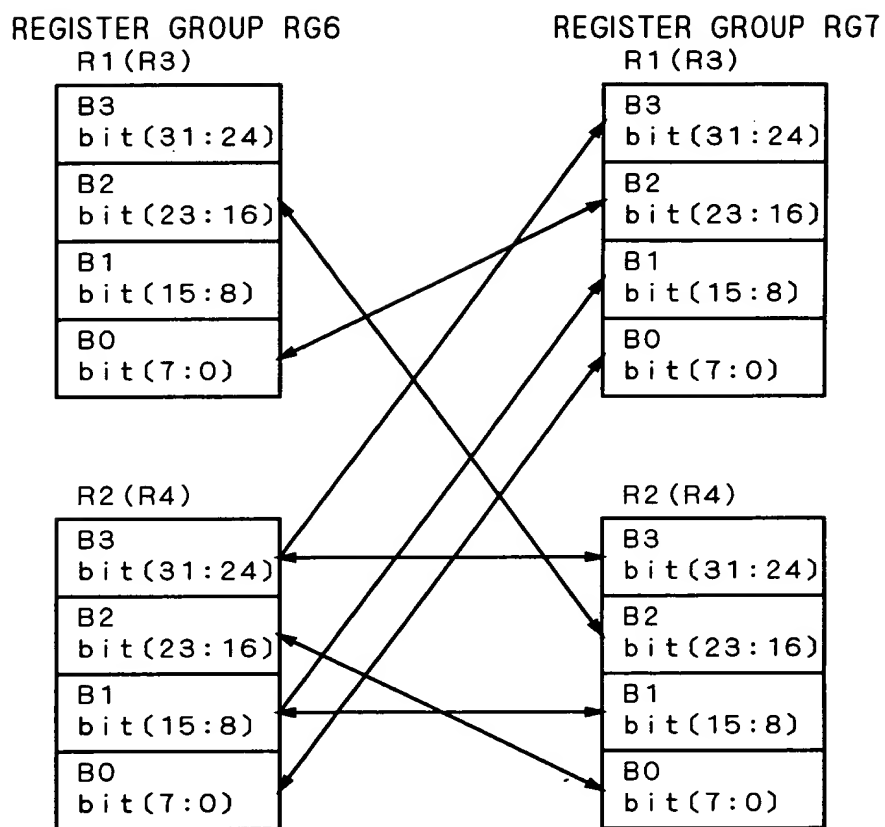


FIG. 8



005720 26010500



FIG. 9

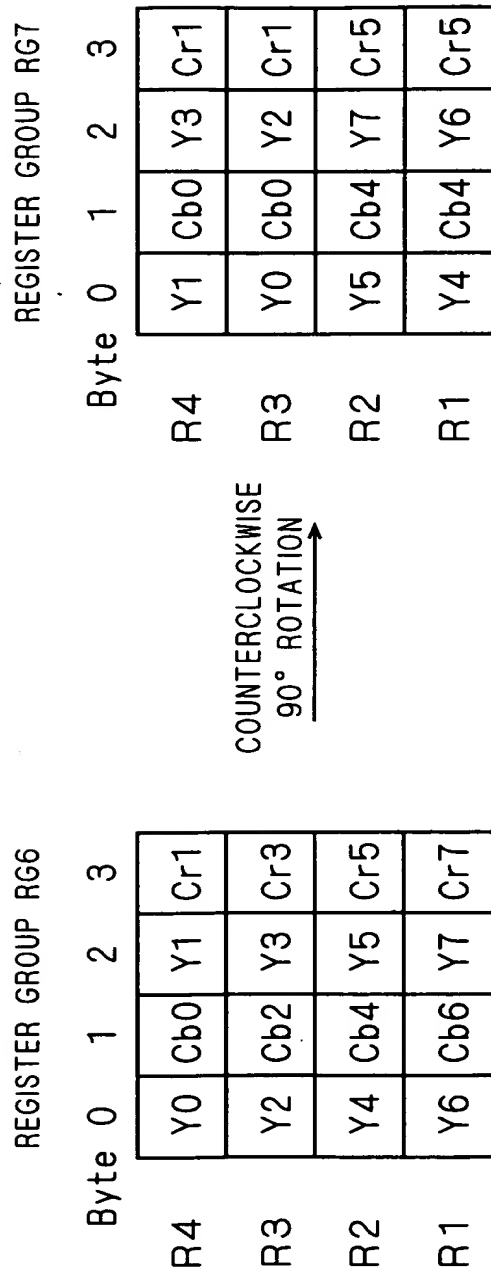
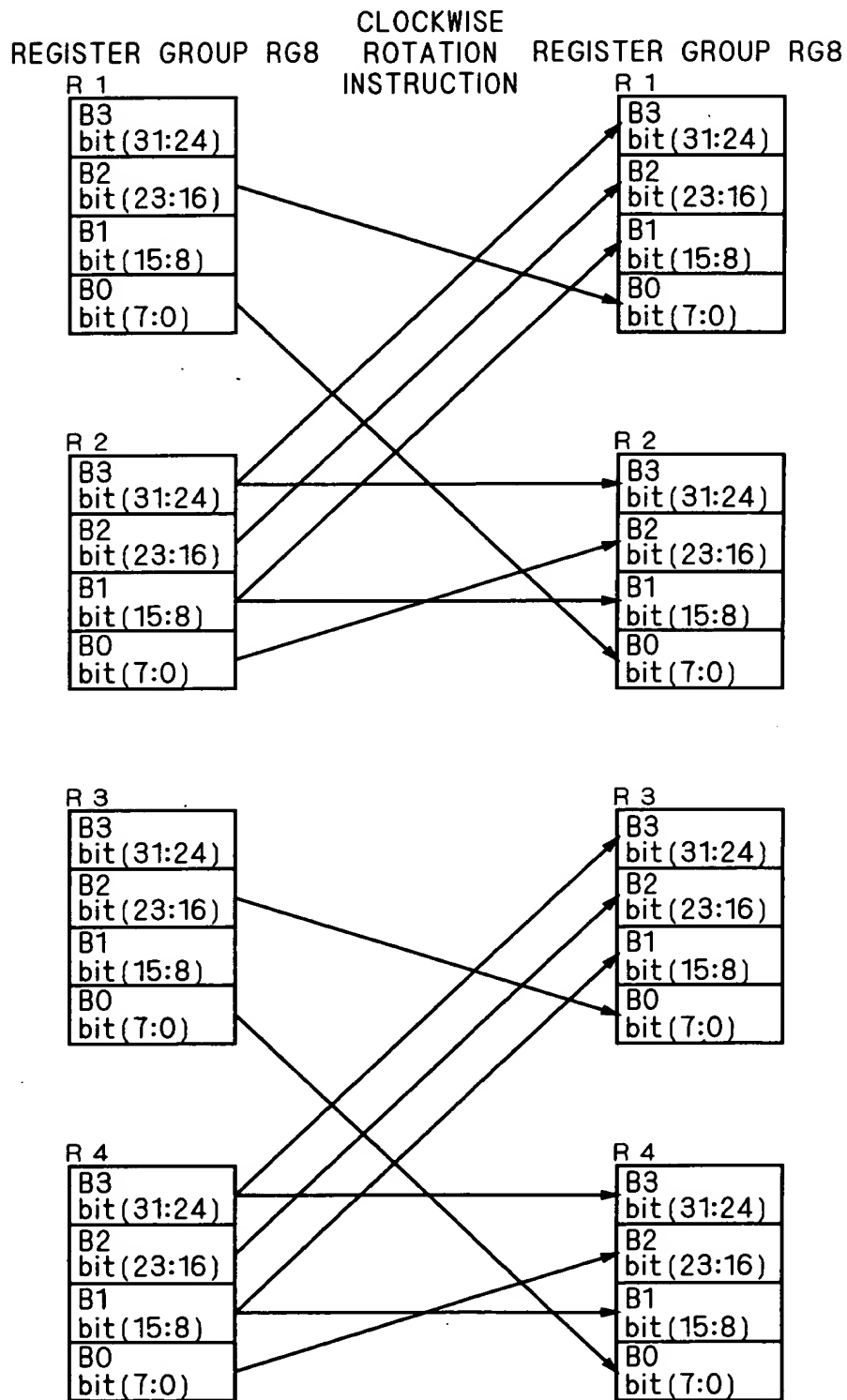


FIG. 10



00501001 20010500

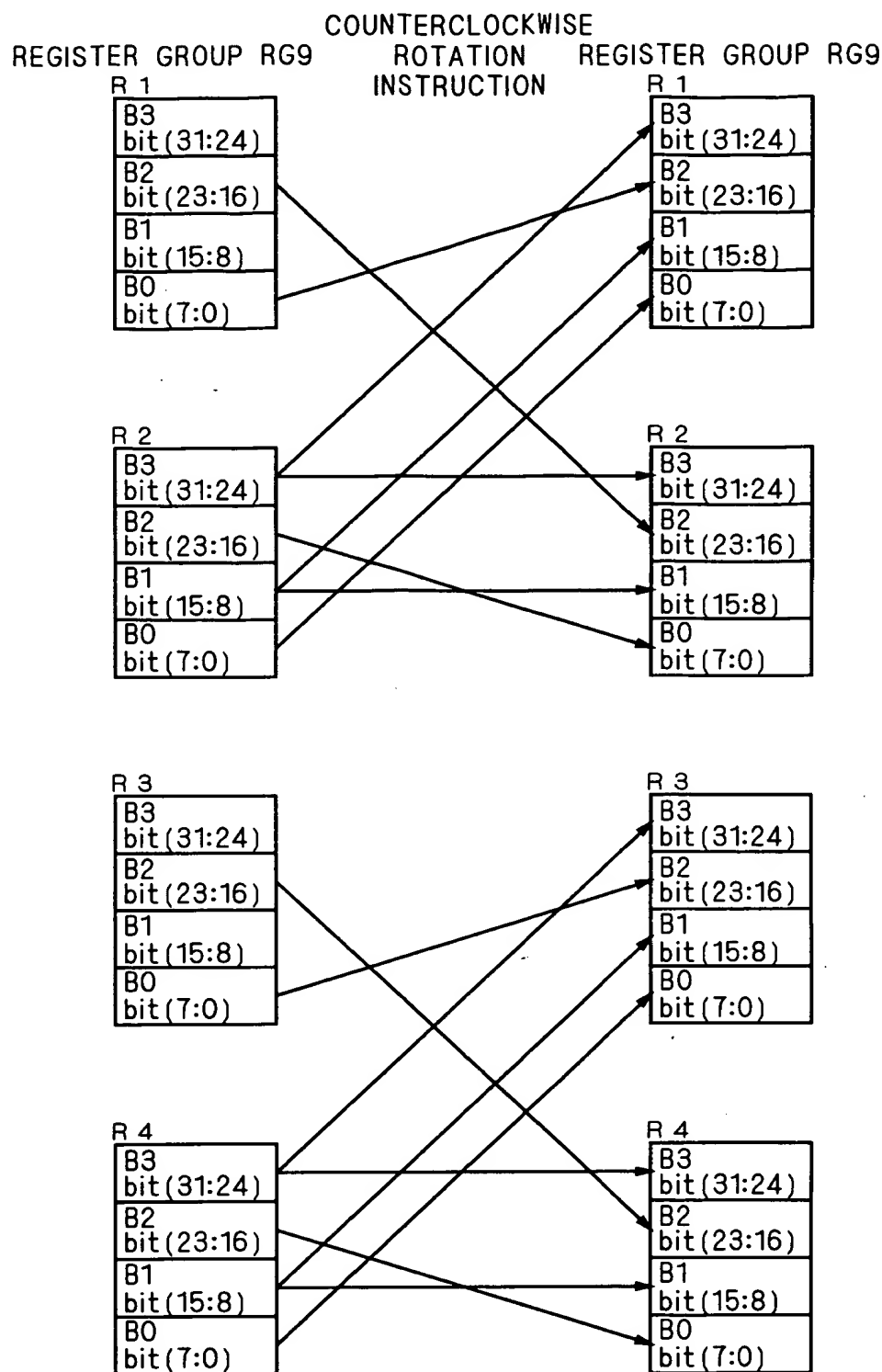
FIG. 11

| REGISTER GROUP RG8 |    |     |    |     |
|--------------------|----|-----|----|-----|
| Byte 0 1 2 3       |    |     |    |     |
| R4                 | Y0 | Cb0 | Y1 | Cr1 |
| R3                 | Y2 | Cb2 | Y3 | Cr3 |
| R2                 | Y4 | Cb4 | Y5 | Cr5 |
| R1                 | Y6 | Cb6 | Y7 | Cr7 |

CLOCKWISE  
ROTATION  
INSTRUCTION

| REGISTER GROUP RG8 |    |     |    |     |
|--------------------|----|-----|----|-----|
| Byte 0 1 2 3       |    |     |    |     |
| R4                 | Y2 | Cb0 | Y0 | Cr1 |
| R3                 | Y3 | Cb0 | Y1 | Cr1 |
| R2                 | Y6 | Cb4 | Y4 | Cr5 |
| R1                 | Y7 | Cb4 | Y5 | Cr5 |

FIG. 12



00501089 28010500

FIG. 13

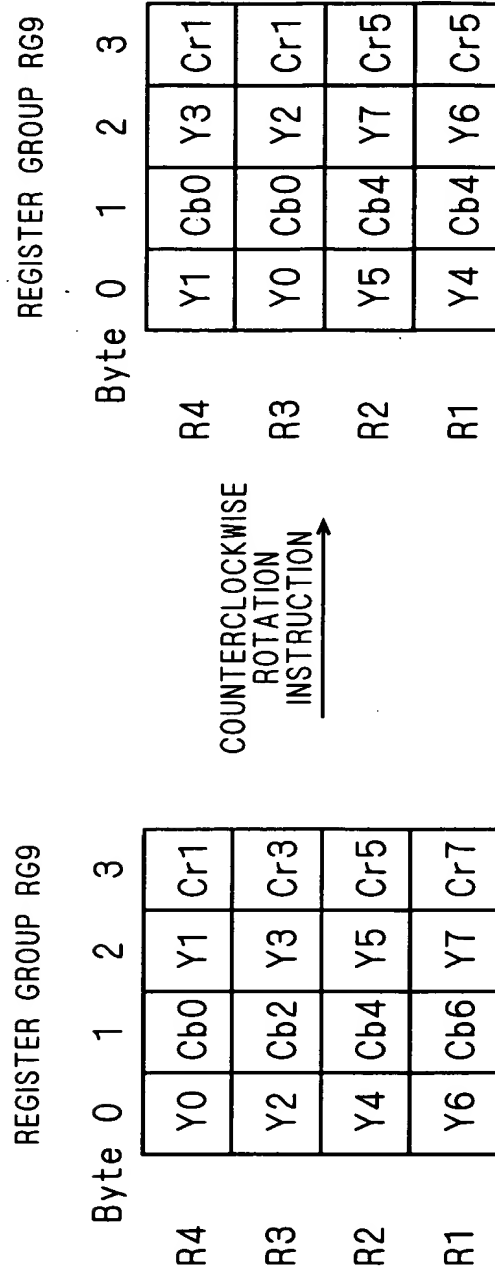
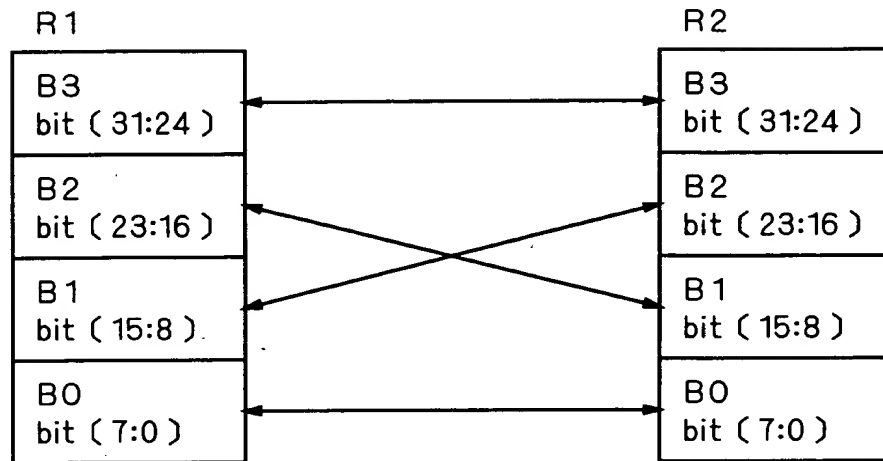


FIG. 14



005F20 20010500